

IN THE CLAIMS:

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 25 (cancelled).

26. (Four times amended) An interface system at a base station in a cell within a cellular wireless network for providing bi-directional wireless communications to Network Interface Units (NIUs) at customer sites within the cell, each of said NIUs having a highly directional antenna [[and]] for providing a point to point inter-cell radio link for communicating with a base station in a neighboring cell comprising[[;]] an asynchronous transfer mode (ATM) multi-services switch equipped with a first one or more radio interface card for providing wireless communications between the base station and the NIUs via said highly directional antenna and a second one or more radio interface card for providing the point to point inter-cell radio link.

32. (Three times amended) An interface system as defined in claim [[25]] 27 wherein said inter-cell radio link between respective base stations is in a ring configuration, wherein one of the base stations is connected to [[said]] an ATM network and [[the]] a network manager, and each of said other base stations is in bidirectional communication with said one base station over inter-cell radio links.

34. (Four times amended) A base station in a cell of a cellular, wireless communications network for providing wireless, bi-directional communication with network interface units (NIUs) within the cell having highly directional antenna [[and]] for providing a point to point inter-cell radio link with a base station in a neighboring cell, the base station having an asynchronous transfer mode (ATM) multi-services switch equipped with a first radio interface card for providing the wireless, bi-directional communication between the base station and the NIUs and a second interface card for providing the point to point radio inter-cell link, said radio interference cards being, selectively, one of the following: frequency division multiple access (FDMA) or time division multiple access (TDMA).

42. (Four times amended) A method of providing communications between base stations in a cellular, wireless network having multiple cells, each of the multiple cells having a base station, the method comprising: providing an asynchronous transfer mode (ATM) multi-services switch at each of the base stations, each switch being equipped with a radio interface card for providing point to point bi-directional communication with other base stations in the network; providing a network manager in association with at least one of the base stations for configuring the radio interface cards, and providing a directional antenna for

each multi-services switch to support point to point bi-directional communication between base stations over a radio inter-cell link.

45. (Previously presented) A scaleable, broadband wireless system for providing radio access to a metropolitan area comprising: a plurality of overlapping cell areas, each cell area having a base station and a plurality of fixed user sites having network interface units (NIUs) within each cell area,

ATM radio interface cards (ARICs) in each base station for implementing wireless, bi-directional communication between said base stations and user sites, each said ARICs being adapted to operate selectively on frequency division multiple access (FDMA) protocol, or two time division multiple access (TDMA) protocol.

an ATM backplane at one of said base stations constituted by a plurality of ARICs, each base station ARICs being provided with implementing protocols for bi-directionally linking with the ATM backplane, said ARICs being adapted to operate on a multiple access protocol so as to provide point-to-point radio access between base stations over intercell links, and whereby the system can be scaled by adding ARICs to said ATM backplane as required to meet demand.

Claims 46 and 47 cancelled.

48. (Previously presented) The broadband wireless system defined in Claim 45 wherein one of said base stations includes said ATM backplane and a network manager for configuring the operating frequencies, establishing modulation rate and establish a selected

5 forward error correction (FEC) value and sets the transmission power levels for the users thereof.